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## **Robust stabilization of Uncertain stochastic neutral interval system with multiple delays**

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### **Abstract**

In this paper, we first deal with the robust stability of uncertain linear stochastic neutral interval systems. The parameters are unknown but bounded and the delays are time-invariant. Moreover, we extend the proposed theory to discuss the robust stabilization of uncertain stochastic neutral interval systems. The proposed results are given in terms of linear matrix inequalities. Two examples are worked out to illustrate the validness of the theoretical results.

**Key words:** Uncertainty; Time delay; Linear matrix inequality (LMI);  
Stochastic stability; Robust; Multiple delay